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aircraft +flapping +angle of attack +leading edge

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### Session EA - Vortex Dynamics III.

The blade pitch and rotational velocity, the rotor plane **angle of attack**, ... Lift Maximization of a Flat Plate Periodically **Flapping** in a Single Direction ...  
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### [PDF] Computational Biological Fluid Dynamics: Digitizing and ...

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instantaneous velocity and **angle of attack** (Lighthill, 1975). These models suggested that, ... The **leading-edge** vortices induced by **flapping** and ...  
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### Computational Biological Fluid Dynamics: Digitizing and ...

The LEVs tend to enlarge in size with increasing **angle of attack**, and apparently ... The **leading-edge** vortices induced by **flapping** and rotary wings at low ...  
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### Subject Listing for Aerodynamics - airfoils

A Non-Linear Aeroelastic Model for the Study of **Flapping-Wing** Flight ... goal of determining the effect of **angle of attack** on an airfoils inviscid response. ...  
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### Department of Aeronautics & Astronautics: Research Programs ...

However, the precise flow details around the **leading edge** could not be ascertained in these tests. The effective **angle of attack** induced by the plunge ...  
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### [PDF] Airfoil **leading-edge** suction and energy conservation for ...

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When a flat-plate airfoil at zero **angle of attack** encounters a vertical gust in an ... **leading edge** impinges on the trailing **edge**, scattering the **wave** and ...  
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### B263

An imaginary line drawn through an airfoil from its **leading edge** to its ... Derived from: Tip speed ratio [ $\mu$ ], Blade twist [ $\theta_1$ ], **Angle of attack** in tip path ...  
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### [PS] COMPUTATIONAL AND EXPERIMENTAL INVESTIGATION OF **FLAPPING-FOIL** ...

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... ow is the effective **angle of attack**, as illustrated in. Fig. 4. Cases (a) and (b) represent ...  
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### [PS] **THE UNSTEADY AERODYNAMICS OF **FLAPPING-FOIL** PROPELLERS** Abstract.

1 ...

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the **leading edge** could not be ascertained in these tests. The effective **angle** of **attack** induced by the plunge oscillation is certainly very large and it is ...  
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[PDF] [Force Measurements on a Flapping and Pitching Wing at Low Reynolds ...](#)

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previously proposed pitching mode in which the **leading edge** and trailing **edge** switch ...

Force levels are higher for the higher **angle-of-attack** and higher ...

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# SEARCH History

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	640025	244/17.11-22,39,200,204,130.ccls. @pd>"20051007"	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/05 09:36
L2	27	HAMAMOTO MASAKI	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/02/05 09:36
L3	138	244/17.11-22,39,200,204,130.ccls. and @pd>"20051007"	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/05 09:36
S1	0	("(helicopterwithblades)and(bladesw ithflexible)").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/13 15:24
S2	561	(helicopter with blades) and (blades with flexible)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 15:24
S3	215	(helicopter with blades) and (blades with flexible) and (blade with (upper and lower))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 15:25
S4	110	(helicopter with blades) and (blades with flexible) and (blade with (upper and lower)) and (blade with material)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 15:50
S5	1	"6327994".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 15:51
S6	12	("1967487"   "2421956"   "2742947"   "4407688"   "4776076"   "4868962"   "5430937"   "5528828"   "5570631").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 16:01
S7	256	(helicopter adj2 blades) and (blades with (bending))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 16:02
S8	153	(helicopter adj2 blades) and (blades with (bending and material))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 16:02
S9	34	(helicopter adj2 blades) and (flexible adj blade)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 16:03
S10	0	("3356153").URPN.	USPAT	OR	ON	2006/03/13 16:12
S11	5	244/123.1.ccls. and (flexible with rigid)	USPAT	OR	ON	2006/03/13 16:15
S12	7	244/123.1.ccls. and helicopter	USPAT	OR	ON	2006/03/13 16:19
S13	3	244/133.ccls. and (helicopter adj2 blades)	USPAT	OR	ON	2006/03/13 16:20

## EAST Search History

S14	3	244/133.ccls. and (helicopter adj2 blades) and material	USPAT	OR	ON	2006/03/13 16:31
S15	0	((flexible with lower) and (rigid with upper)) with (skin or material) and ((blade or airfoil) and helicopter)	USPAT	OR	ON	2006/03/13 16:33
S16	23	((flexible with lower) and (rigid with upper)) and ((blade or airfoil) and helicopter)	USPAT	OR	ON	2006/03/13 16:38
S17	140	"244"/\$.ccls. and ((airfoil or blade) with twist)	USPAT	OR	ON	2006/03/13 16:38
S18	12	("4172574"   "4205810"   "4455004"   "4671473"   "4722499"   "5102068"   "5275358"   "5348253"   "5634613"   "6345790"   "6484968"   "6547181").PN. OR ("6886778").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 16:39
S19	53	("0920064"   "1040136"   "1109891"   "1273267"   "1403909"   "1701762"   "1704112"   "1743516"   "1879142"   "1884848"   "1884909"   "2086883"   "2213538"   "2407777"   "2578845"   "2719591"   "3161376"   "3162400"   "3167130"   "3321022"   "3578875"   "3625631"   "4155195"   "4163535"   "4434956"   "4712749"   "4749149"   "4793573"   "5163861"   "5884872"   "6082671"   "6206324"   "6227483").PN. OR ("6824094").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 16:54
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S21	1	"6824094".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 17:17
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## EAST Search History

S23	2	S22 and square	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 18:17
S24	52	(feathering adj axis) and airfoil	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 19:21
S25	7	(feathering adj axis) with airfoil	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 19:36
S26	195	(airfoil adj construction)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 19:36
S27	12	(airfoil adj construction) and ((upper and lower) with material)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 19:41
S28	123	(airfoil and helicopter) and ((upper and lower) near "300" (different with material))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 19:42
S29	3	(airfoil and helicopter) and ((upper and lower) near300 (different with material))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 19:42
S30	7	("3606580").URPN.	USPAT	OR	ON	2006/03/13 21:20
S31	253	airfoil near300 (upper and lower and material)	USPAT	OR	ON	2006/03/13 21:20
S32	48	airfoil near300 (upper and lower and aluminum)	USPAT	OR	ON	2006/03/13 21:21
S33	198	airfoil near300 (upper and lower and different)	USPAT	OR	ON	2006/03/13 21:21
S34	37	airfoil near300 (upper same lower same different)	USPAT	OR	ON	2006/03/13 21:27
S35	14	upper near300(lower and material and different and airfoil)	USPAT	OR	ON	2006/03/13 21:28
S36	14	upper near300 (lower and material and different and airfoil)	USPAT	OR	ON	2006/03/13 21:29
S37	22	lower near300 (upper and material and different and airfoil)	USPAT	OR	ON	2006/03/13 21:29
S38	39	material near300 (upper and lower and different and airfoil)	USPAT	OR	ON	2006/03/13 21:29
S39	4	different near300 (upper and lower and material and airfoil)	USPAT	OR	ON	2006/03/13 21:29
S40	65	airfoil near300 (upper and lower and material and different)	USPAT	OR	ON	2006/03/13 21:29
S41	2	S40 and S38 and S37 and S36 and S35	USPAT	OR	ON	2006/03/13 21:30

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S42	14	"3167129"	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/24 11:26
S43	3	"6824094"	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/24 11:26
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S46	1	"6227483".pn. and station\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/24 11:43
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S48	2	((("6824094") or ("6227483"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/24 11:49
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S50	1	"20040195439"	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/24 16:09
S51	1	"20050095380"	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/24 16:09
S52	12259550	"920,064" A	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/03 21:27

## EAST Search History

S53	4	((("0920064") or ("1273267")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/03 21:27
S54	5343	244/17.11-22,39,200,204,130.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/03 22:11
S55	929	S54 and (flap\$4 or beat\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/03 21:52
S56	0	244/17.11-22,39,200,204,130	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/05 09:35
S57	27	HAMAMOTO near MASAKI	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/03 22:15
S59	92	flapping and wave plate and leading edge	US-PGPUB; USPAT; USOCR	AND	ON	2007/02/03 22:16



Int & Inv. Search  
**EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S58	1	HAMAMOTO near MASAKI and wave adj plate	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/03 22:15
S60	29	flapping and wave plate and leading edge wing	US-PGPUB; USPAT; USOCR	AND	ON	2007/02/03 22:16